

Siemens 6ES5441-4UA11

DC Digital Output Module

Product scope

- Switches thirty-two 24 V DC loads in four current-limited channel groups.
- Provides a separate slow-blow fuse for each set of eight outputs.
- Supports resistive, lamp and inductive devices at their documented switching rates.

Manufacturer source

Exact-model technical record

Verified model-specific overview, function, operating principle, applications and technical data.

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Siemens 6ES5441-4UA11

DC Digital Output Module

Product overview

Siemens 6ES5441-4UA11 is a SIMATIC S5 non-isolated digital output module with thirty-two 24 V DC channels. Four protected groups of eight switch resistive, lamp and inductive loads in legacy S5 control systems.

6ES5441-4UA11 delivers up to 0.5 A on each of thirty-two semiconductor outputs from a 20–30 V DC field supply. Each eight-channel section is protected by its own 6.3 A slow-blow fuse.

The card drives control relays, solenoids and indicator loads under the timing limits assigned to each load category. An enable circuit can release or inhibit the output stage independently of the programmed process image.

The outputs are non-floating, so group reference and polarity must be preserved exactly. Load inrush, inductive suppression, group total current and fuse coordination require review before reconnecting the front wiring.

Technical specifications

Output channels	32
Output type	Non-floating semiconductor
Load supply	24 V DC
Supply range	20 to 30 V DC
Channel current range	5 mA to 0.5 A
Maximum group current	4 A per 8 outputs
Group fuse	6.3 A slow-blow
Logic 1 output	L+ minus 1.5 V minimum
Logic 0 output	3 V maximum
Off-state leakage	0.5 mA maximum
Lamp load	0.22 A / 5 W
Resistive switching	100 Hz
Inductive switching at 0.3 A	2 Hz
Inductive switching at 0.5 A	0.5 Hz
Backplane supply	5 V DC
Backplane current	80 mA
Field current consumption	150 mA
Enable input	Provided
Module width	20 mm
Module height	255 mm
Module depth	195 mm

6ES5441-4UA11 function and operating principle

Ordered configuration

This part is the narrow 32-point S5 441 output card for non-floating 24 V circuits.

System role

It translates CPU commands into four field-output groups for machine actuators and indication.

Selection and installation

Common reference, group loading and load suppression must be proven before a stored program is allowed to energize outputs.

Functional path

- Switches thirty-two 24 V DC loads in four current-limited channel groups.
- Provides a separate slow-blow fuse for each set of eight outputs.
- Supports resistive, lamp and inductive devices at their documented switching rates.

Application scenarios

- Assembly lines use the channels for relays, pilot lamps and low-power solenoid valves.
- Dense legacy control cabinets benefit from thirty-two outputs within a 20 mm module width.
- Sequence controllers can isolate a faulty field group by opening its fuse while other groups remain available for diagnosis.

6ES5441-4UA11 engineering checks

Protection

- Each group of eight outputs is protected by a 6.3 A slow-blow fuse.
- Channel current and group total must both remain within their separate limits.
- Inductive loads require appropriate suppression because semiconductor outputs do not absorb unlimited stored energy.

Performance & Efficiency

- Resistive loads can be switched at up to 100 Hz under the documented conditions.
- Inductive switching falls to 2 Hz at 0.3 A and 0.5 Hz at the maximum 0.5 A load.
- Off-state leakage remains at or below 0.5 mA, which must be considered for sensitive connected devices.

Installation

- The 20 mm card requires the matching S5 rack slot and front connector.
- Four output commons and their fused feeds must remain correctly grouped during rewiring.
- The enable circuit and 24 V field supply should be tested before command signals are restored.

Critical technical note

Because 6ES5441-4UA11 outputs are non-floating, verify the common reference and inductive suppression before inserting the front connector.

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